09/647332 "09/647332"

Fig. 1

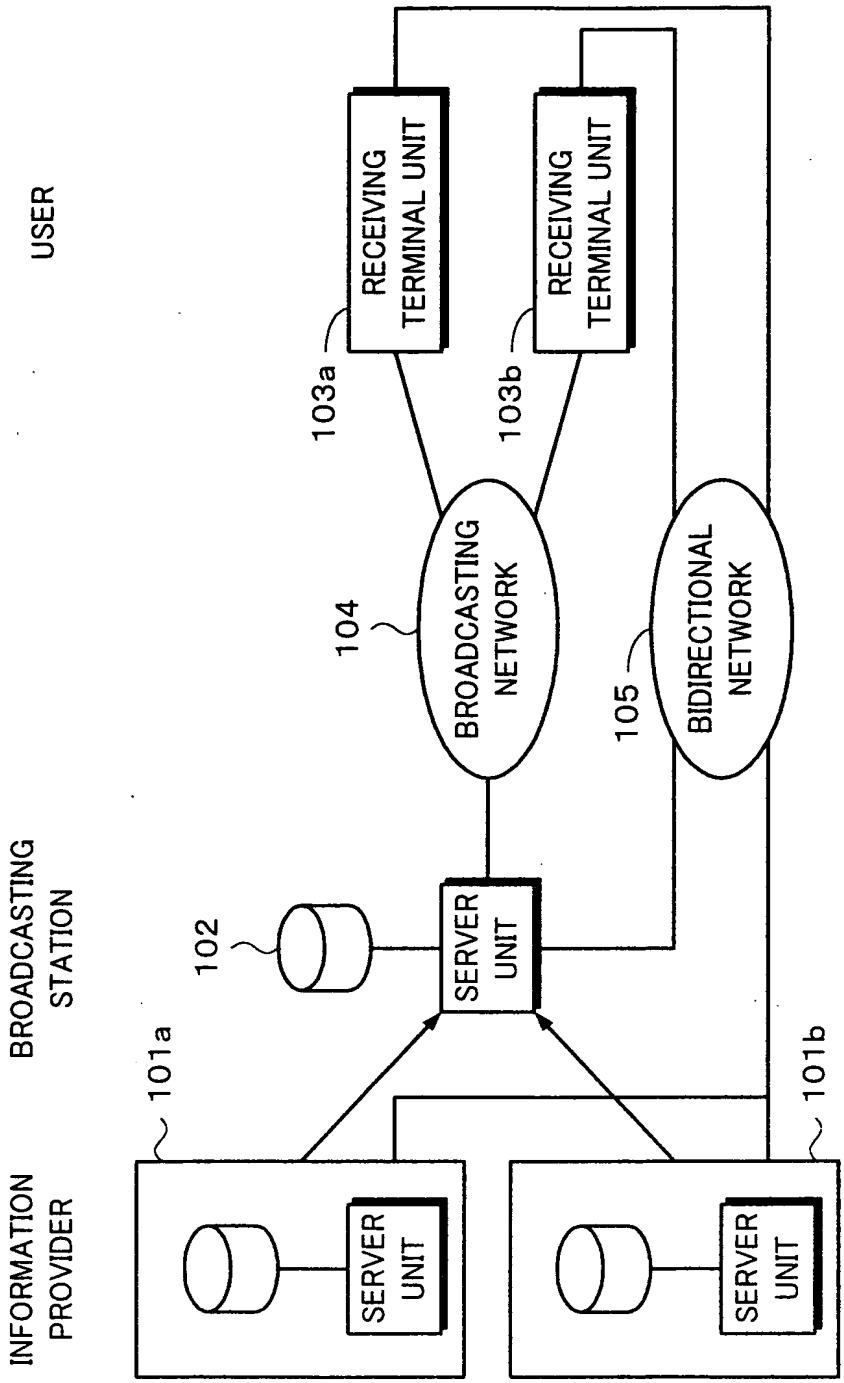


Fig. 2

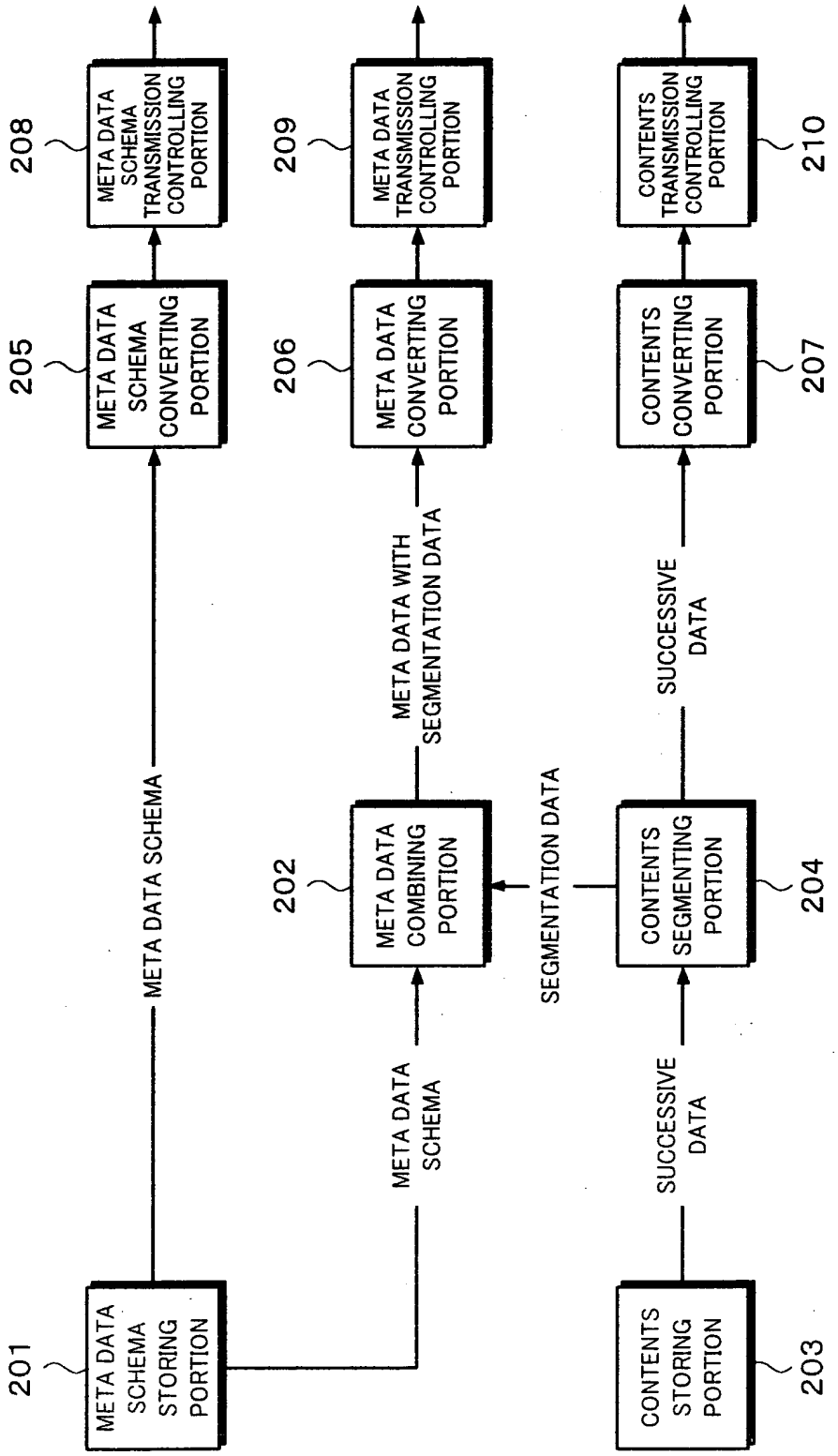
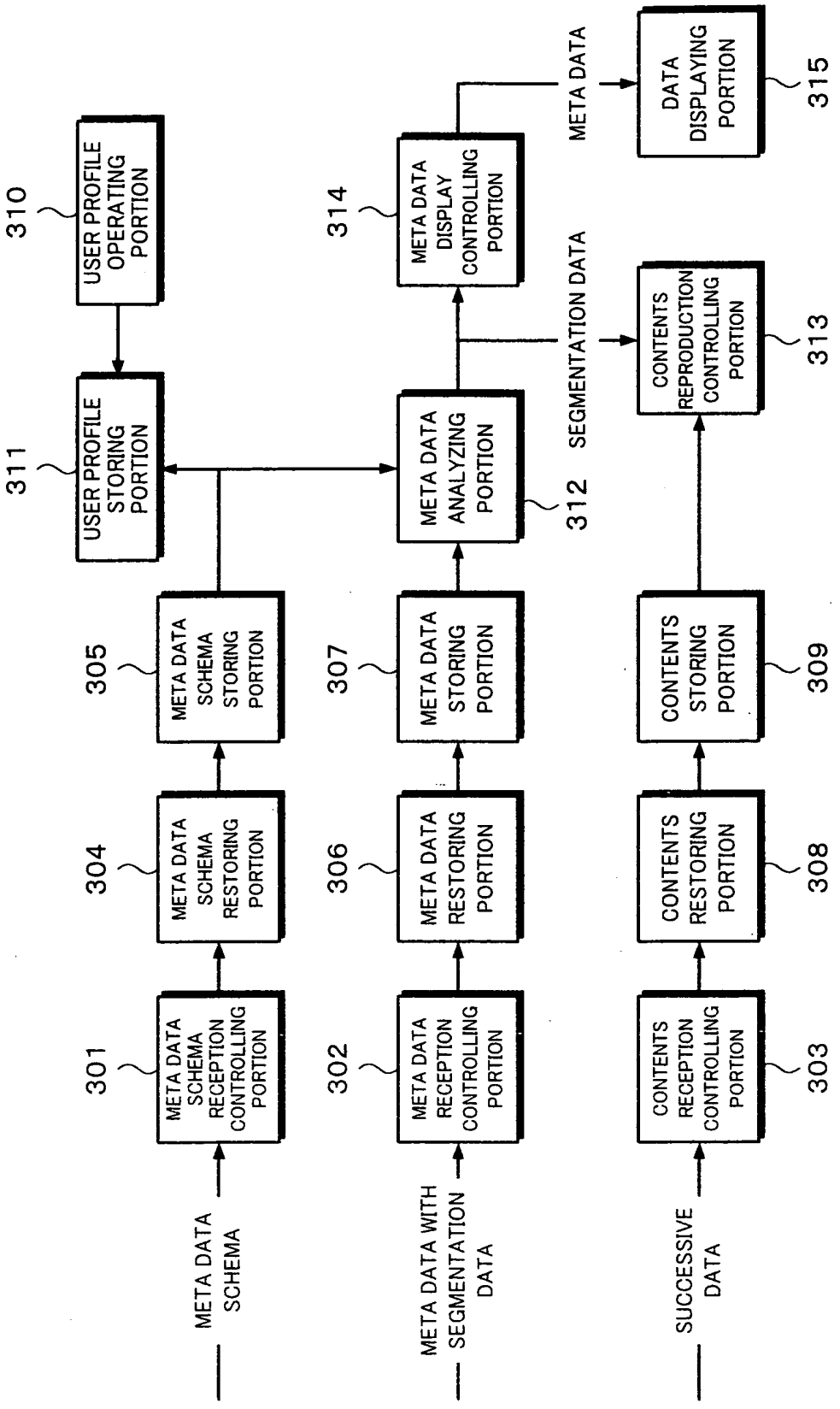

201
META DATA SCHEMA STORING PORTION
205
META DATA SCHEMA CONVERTING PORTION
208
META DATA SCHEMA TRANSMISSION CONTROLLING PORTION
META DATA SCHEMA
202
META DATA COMBINING PORTION
206
META DATA CONVERTING PORTION
209
META DATA TRANSMISSION CONTROLLING PORTION
META DATA WITH SEGMENTATION DATA
SEGMENTATION DATA
203
CONTENTS STORING PORTION
204
CONTENTS SEGMENTING PORTION
207
CONTENTS CONVERTING PORTION
210
CONTENTS TRANSMISSION CONTROLLING PORTION
SUCCESSIVE DATA
SUCCESSIVE DATA

Fig. 3


META DATA SCHEMA
META DATA WITH SEGMENTATION DATA
SUCCESSIVE DATA
301
META DATA SCHEMA RECEPTION CONTROLLING PORTION
302
META DATA RECEPTION CONTROLLING PORTION
303
CONTENTS RECEPTION CONTROLLING PORTION
304
META DATA SCHEMA RESTORING PORTION
306
META DATA RESTORING PORTION
308
CONTENTS RESTORING PORTION
305
META DATA SCHEMA STORING PORTION
307
META DATA STORING PORTION
309
CONTENTS STORING PORTION
310
USER PROFILE OPERATING PORTION
311
USER PROFILE STORING PORTION
312
META DATA ANALYZING PORTION
SEGMENTATION DATA
313
CONTENTS REPRODUCTION CONTROLLING PORTION
314
META DATA DISPLAY CONTROLLING PORTION
META DATA
315
DATA DISPLAYING PORTION

09/647332 "09/647332

Fig. 4

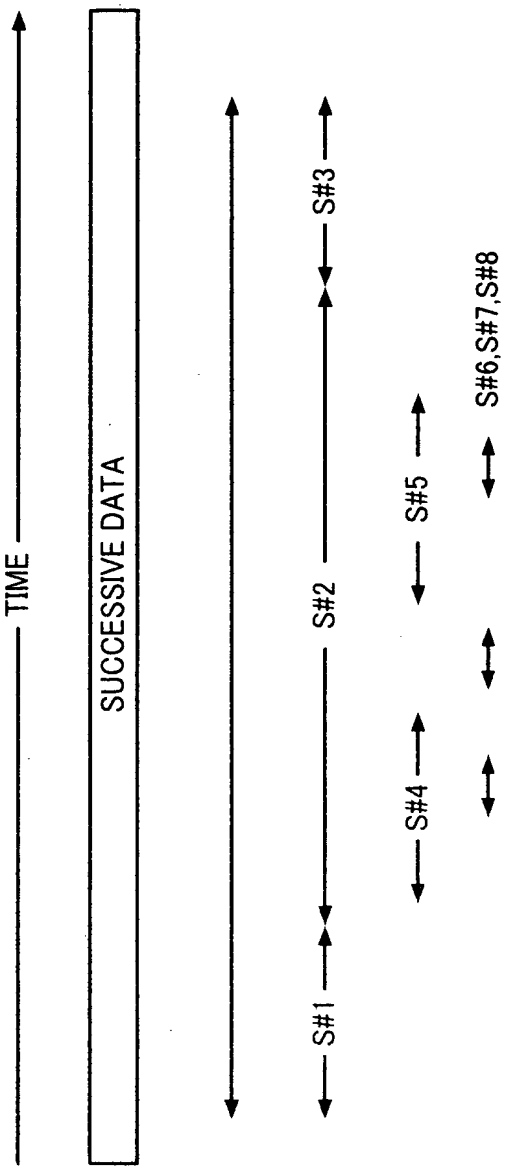


Fig. 5

```
<Service id = "Svc#1">
 <Event id = "E#5" start_time =20:00 duration=02:00>
  <Segment id="S#1" start_time=20:00 duration =00:20/>
  <Segment id="S#2" start_time=20:20 duration=01:20/>
  <Segment id="S#3" start_time=21:40 duration=00:20/>
  <Segment id="S#4" start_time=20:30 duration=00:20/>
  <Segment id="S#5" start_time=21:00 duration=00:30/>
  ......
 </Event>
</Service>
```

Fig. 6

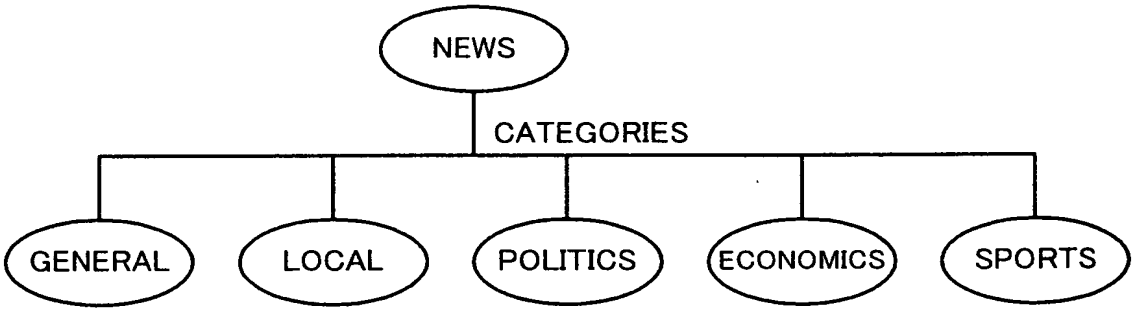


Fig. 7

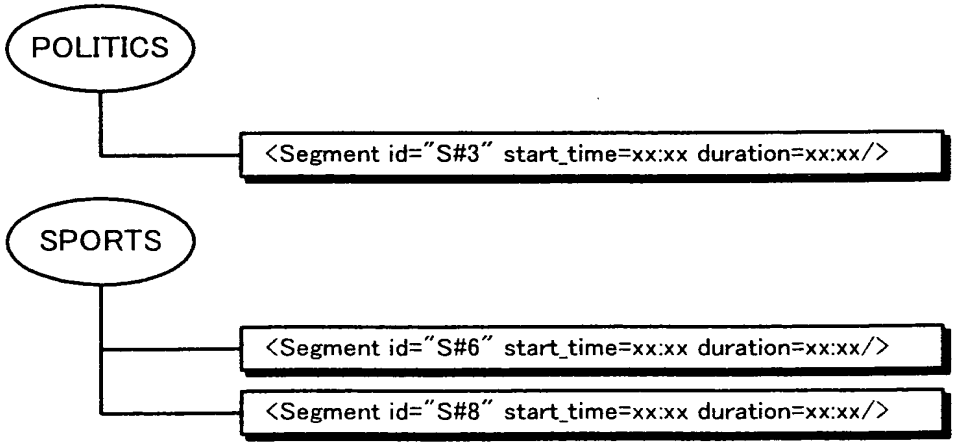


Fig. 8

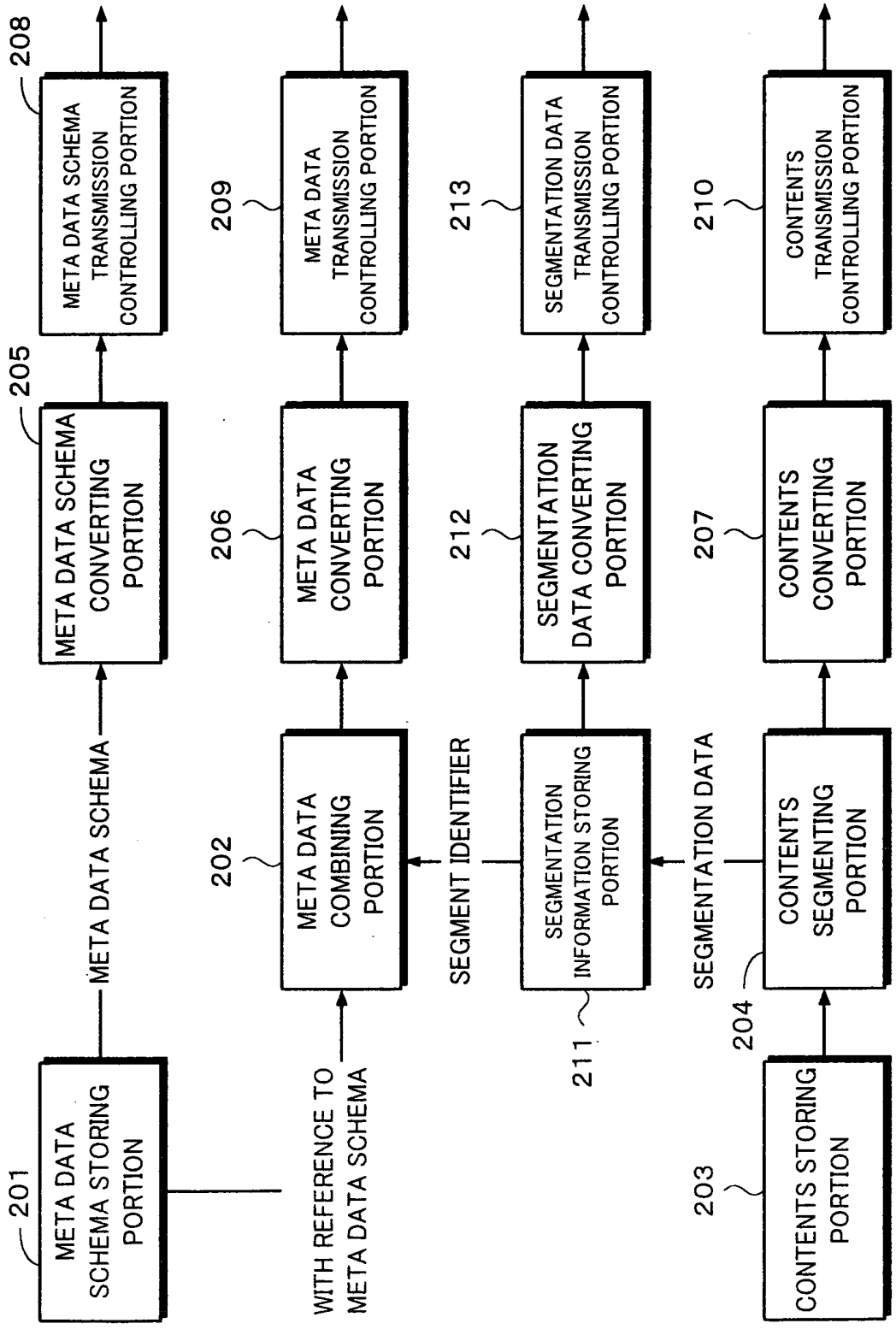

201
META DATA SCHEMA STORING PORTION
WITH REFERENCE TO META DATA SCHEMA
META DATA SCHEMA
205
META DATA SCHEMA CONVERTING PORTION
208
META DATA SCHEMA TRANSMISSION CONTROLLING PORTION
202
META DATA COMBINING PORTION
SEGMENT IDENTIFIER
206
META DATA CONVERTING PORTION
209
META DATA TRANSMISSION CONTROLLING PORTION
211
SEGMENTATION INFORMATION STORING PORTION
212
SEGMENTATION DATA CONVERTING PORTION
213
SEGMENTATION DATA TRANSMISSION CONTROLLING PORTION
SEGMENTATION DATA
204
CONTENTS SEGMENTING PORTION
207
CONTENTS CONVERTING PORTION
210
CONTENTS TRANSMISSION CONTROLLING PORTION
203
CONTENTS STORING PORTION

Fig. 9

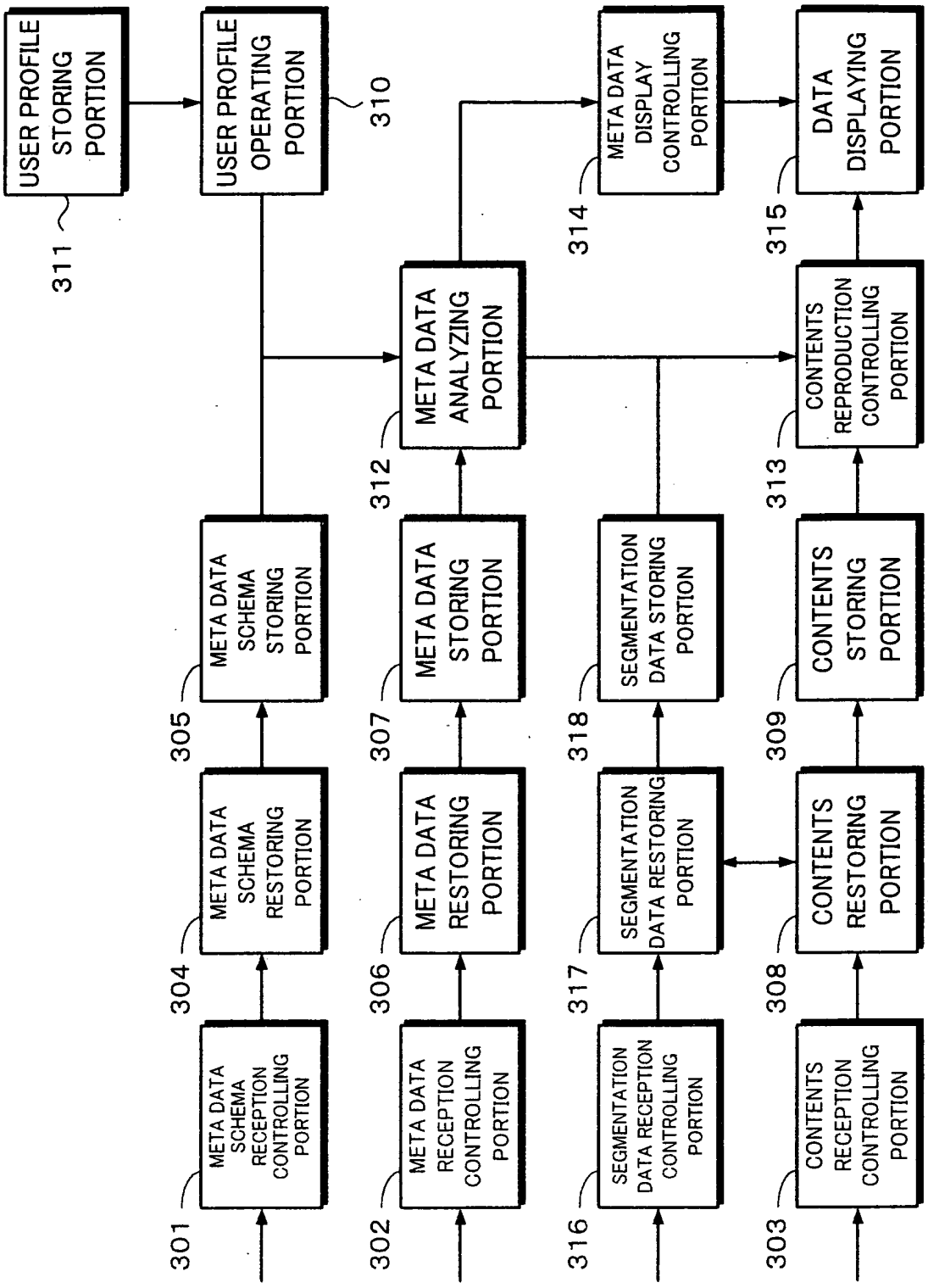

USER PROFILE STORING PORTION
311
USER PROFILE OPERATING PORTION
310
META DATA DISPLAY CONTROLLING PORTION
314
DATA DISPLAYING PORTION
315
META DATA ANALYZING PORTION
312
CONTENTS REPRODUCTION CONTROLLING PORTION
313
META DATA SCHEMA STORING PORTION
305
META DATA STORING PORTION
307
SEGMENTATION DATA STORING PORTION
318
CONTENTS STORING PORTION
309
META DATA SCHEMA RESTORING PORTION
304
META DATA RESTORING PORTION
306
SEGMENTATION DATA RESTORING PORTION
317
CONTENTS RESTORING PORTION
308
META DATA SCHEMA RECEPTION CONTROLLING PORTION
301
META DATA RECEPTION CONTROLLING PORTION
302
SEGMENTATION DATA RECEPTION CONTROLLING PORTION
316
CONTENTS RECEPTION CONTROLLING PORTION
303

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Fig. 10

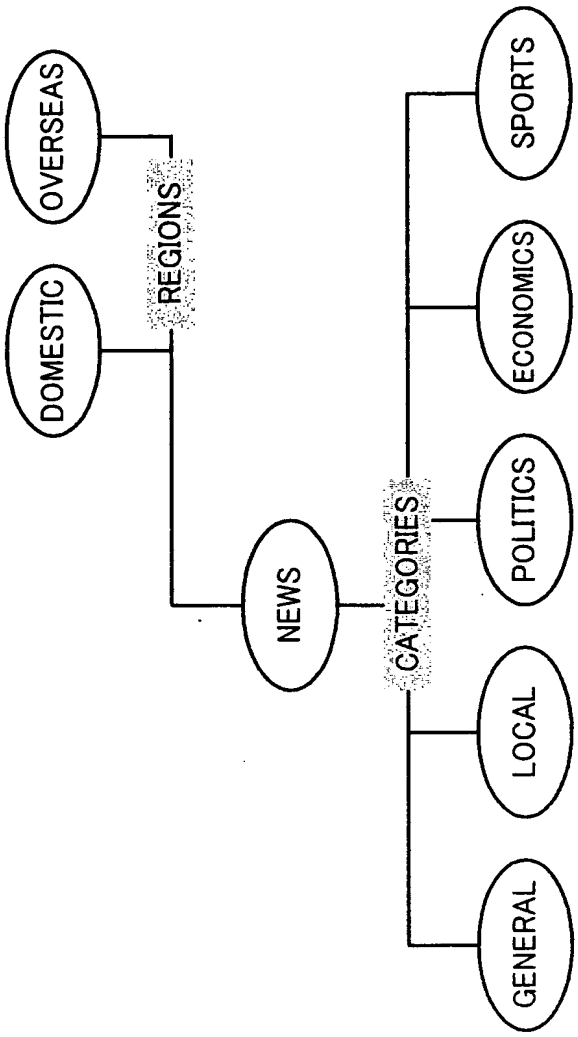

Fig. 11

```
..
<Segment ID="S#3" start_time=xx:xx duration=xx:xx/>
..
<Segment ID="S#5" start_time=xx:xx duration=xx:xx/>
..
```

Fig. 12

```
<Segment ID="S#3">
        <News:Category ID="Politics"/>
        <News:Area ID="Domestic"/>
</Segment>
<Segment ID="S#5">
        <News:Category ID="Sports"/>
        <News:Area ID="international"/>
</Segment>
```

Fig. 13

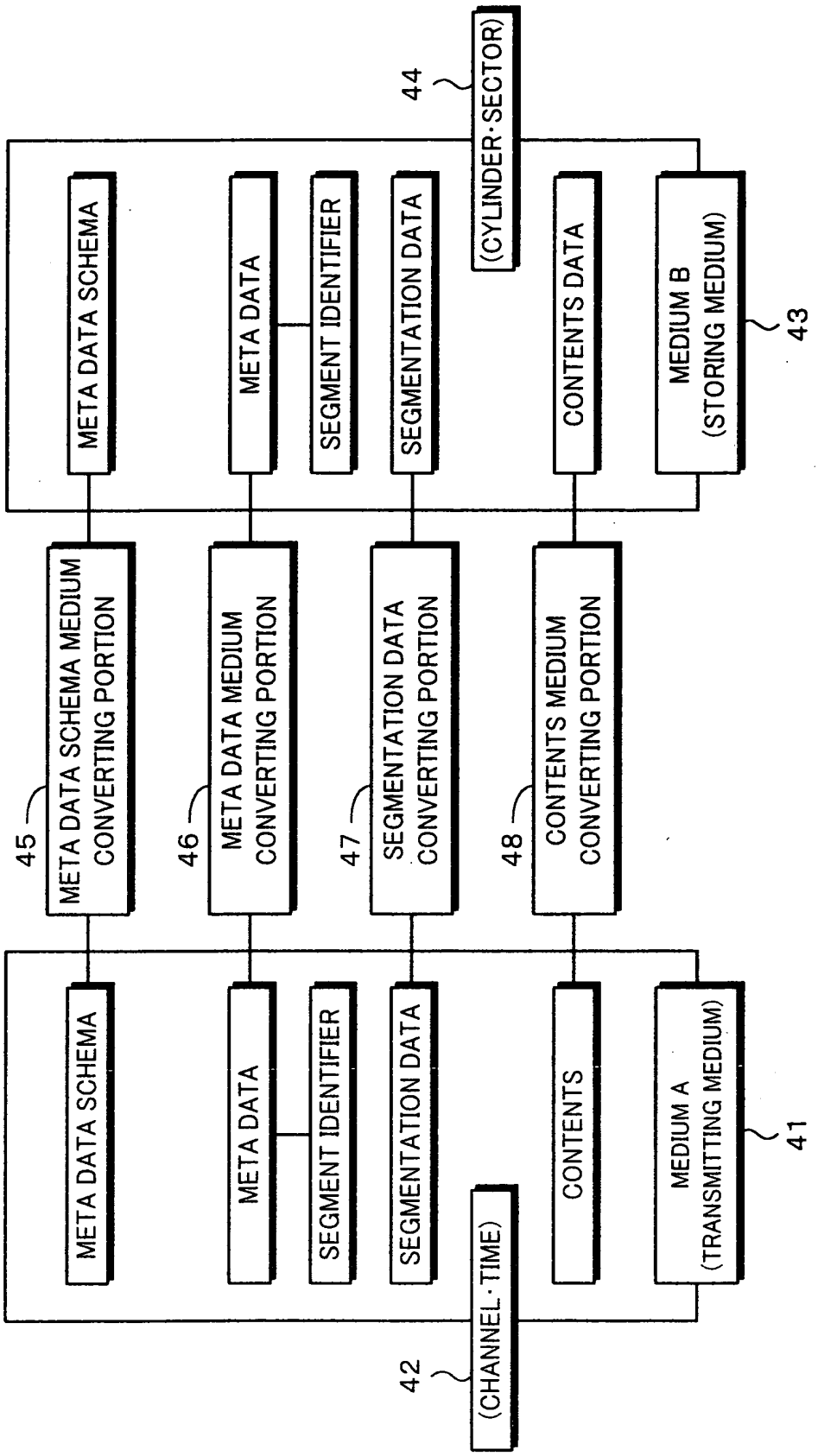
44
(CYLINDER·SECTOR)
META DATA SCHEMA
META DATA
SEGMENT IDENTIFIER
SEGMENTATION DATA
CONTENTS DATA
MEDIUM B
(STORING MEDIUM)
43
45
META DATA SCHEMA MEDIUM CONVERTING PORTION
46
META DATA MEDIUM CONVERTING PORTION
47
SEGMENTATION DATA CONVERTING PORTION
48
CONTENTS MEDIUM CONVERTING PORTION
META DATA SCHEMA
META DATA
SEGMENT IDENTIFIER
SEGMENTATION DATA
CONTENTS
MEDIUM A
(TRANSMITTING MEDIUM)
41
42
(CHANNEL·TIME)

Fig. 14

```
<Service id="Svc#1">
  <Event id="E#5" start_time=20:00 duration=02:00>
    <Segment id="S#1" start_time=20:00 duration=00:20/>
    <Segment id="S#2" start_time=20:20 duration=01:20/>
    <Segment id="S#3" start_time=21:40 duration=00:20/>
    <Segment id="S#4" start_time=20:30 duration=00:20/>
    <Segment id="S#5" start_time=21:00 duration=00:30/>
      .....
  </Event>
</Service>
```

Fig. 15

```
<Drive id="D:">
  <File id="news.mp1" duration=02:00>
    <Segment id="S#1" start_time=00:00 duration=00:20/>
    <Segment id="S#2" start_time=00:20 duration=01:20/>
    <Segment id="S#3" start_time=01:40 duration=00:20/>
    <Segment id="S#4" start_time=00:30 duration=00:20/>
    <Segment id="S#5" start_time=01:00 duration=00:30/>
      .....
  </File>
</Drive>
```

Fig. 16

```
<Drive id="D:">
  <Segment id="S#1" resource="file:news1.mp1"/>
  <Segment id="S#2" resource="file:news2.mp1"/>
  <Segment id="S#3" resource="file:news3.mp1"/>
  <Segment id="S#4" resource="file:news4.mp1"/>
  <Segment id="S#5" resource="file:news5.mp1"/>
    .....
</Drive>
```

202	META DATA COMBINING PORTION
204	CONTENTS SEGMENTING PORTION
211	SEGMENTATION INFORMATION STORING PORTION
212	SEGMENTATION DATA CONVERTING PORTION
313	CONTENTS REPRODUCTION CONTROLLING PORTION

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